KIBRON Delta-8

HIGH THROUGHPUT SURFACE TENSIOMETER 96-SAMPLES IN TWO MINUTES



Unique surface tension plate reader for determination of CMC The Delta-8 is a multi-channel, fully automated surface tensiometer. It can determine the CMC of a surfactant (or surface active material) up to one hundred times faster than with conventional techniques. • Fully automated system capable of taking 96 measurements in 2-10 minutes. Inside the Delta-8: • The Delta-8 uses standard size detection plates and conventional dispensing **Simultaneous** systems. Each well (volume 50 µl) can cleaning of 8 be charged with aliquots of solution of **DyneProbes** different concentration. Logging software and analytical package 'CMCeeker' for determining the of surfactants. Screen variation in composition of surfactant polymer matrices - Results 100 times faster than conventional tensiometry at 10% of the cost. Sample preparation made and data collected in less than 30 mins. 35 mN/m CAC 45 mN/m **Detection plate: up** 55 mN/m to 96 measurements 65 mN/m in 2 mins Concentration of polyme 75 mN/m binding **Bound surfactant** Materials Discovery Computer controlled stage **AGFA** www.kibron.com/ products/tensiometers/ IV delta-8#customer-tesimonials Concentration of surfactant

KIBRON DELTA-8

PERFORMANCE BEYOND CONVENTION

P&G

"The Procter & Gamble Company provides branded products and services of superior quality and value that improve the lives of the world's consumers. In this business, investing in the right research methodology is important in driving the development of superior technology. P&G uses the Kibron Delta-8 high throughput screening device as an R&D tool for research methodology."

TECHNICAL DATA

- Method du Noüy-PaddaySurface tension range
- 10-100 mN/m
- Resolution 0.01 mN/m
- Precision 0.2 mN/m
- Temperature range 18-30°C
- 50 µl/well
- Measurement time
- (96-well plate) 3 minutes
- Probe lifetime 100 burns
- Cleaning of Dyneprobes DyneClean electric furnace
- DyneClean lifetime

DynePlate - 96-well plates

- Dimensions 127.8 × 85.5 mm (standard footprint)
- Volume per well 50 µl
- Type

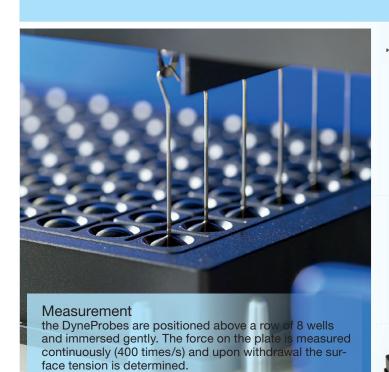
- Supported OS Windows: Win XP/7/8
- Communication USB/RS-232

- Weight: 24 kg / 52,911 lbs.
- Height: 405 mm / 15,945 in.
- Width: 770 mm / 30,315 in.

- Power supply
 Input: 100 -120/200 -240 V, 47- 63 Hz.
- Output: 12 V DC, 10.8 A.
- Power max. 120 W
- CE-approved

EMC-Directives: IEC61010-1:2001, EN55011:1998, EN61003-3-2:1995, EN61000-3-3:1995, EN61000-4-2:1995, EN61000-4-3:1996, EN61000-4-4:1996, EN1000-4-5:1996, EN61000-4-6:1996, N61000-4-11:1994

DELTA-8 COMES WITH THE FOLLOWING STANDARD **ACCESSORIES**



Furnace cleaning The DyneProbes are flamed to red hot to burn of all contaminants

ACCESSORIES

DyneClean

- Cleaning furnace for automatic cleaning of probes in Delta-8
- Heats up to 1000°C
- Clean eight probes simultaneously
- Avoid surfactant contamination
- For use up to 400 times



DynePlates

- Standard size 96-well plate made out of chemically resistant polypropylene
- For use in the Kibron Delta-8
- 50 microliter sample volume
- Disposable and recyclable
- Contamination free
- Recyclable

- Inert metal alloy Ø 0.51mm Allows for small sample volumes
- Easy to clean, economical to use
- Works with cationic surface active agents too

REFERENCES

Royal Melbourne Institute of Technology, Goethe-University Frankfurt, London School of Pharmacy, Institute of Bioengineering and Nanotechnology Singapore, University of Liverpool



Kibron Inc. manufactures state-of-the-art tensiometers, langmuir-blodgett troughs and gravimetric balances as well as customer specified surface chemistry equipment and screening technology to overcome today's challenges in chemical industry. Since its founding, 1994, Kibron has focused on innovation, user benefits and dependable service.

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